

**Abundance and Run Timing of Adult Pacific Salmon in the East Fork Andreafsky River, Yukon Delta National Wildlife Refuge, Alaska, 2005.**

**Abstract:** A resistance board weir was used to collect abundance, run timing, and biological data from salmon returning to the East Fork Andreafsky River, a tributary to the lower Yukon River, between June 26 and September 11, 2005. In 2005, an estimated 2,239 Chinook salmon *Oncorhynchus tshawytscha* migrated through the weir. The run timing was early compared to the 1994-2004 average. Four age groups were identified from 389 Chinook salmon sampled with age 1.3 (64%) dominating. The sex composition was 50% female. The mean length for 193 females was 774 mm, range 510 to 1,015 mm, and the mean length for 196 males was 703 mm, range 410 to 995 mm. An estimated 20,127 chum salmon *O. keta* migrated through the weir. The run timing was later than the 1994-2004 average. Three age groups were identified from 658 summer chum salmon sampled, with age 0.3 (94%) dominating. The sex composition was 44% female. The mean length for 275 females was 542 mm, range 435 to 670 mm, and the mean length for 383 males was 590 mm, range 330 to 775 mm. An estimated total of 5,303 coho salmon *O. kisutch* migrated through the weir. The run timing was comparable to the 1995-2004 average. Three age groups were identified from 277 coho salmon sampled, with age 2.1 (85%) dominating. The sex composition was 51% female. The mean length for 131 females was 540 mm, range 425 to 620 mm, and the mean length for 146 males was 539 mm, range 400 to 655 mm. An estimated total of 39,030 pink salmon *O. gorbuscha* and 151 sockeye salmon *O. nerka* migrated through the weir. Other species counted through the weir during 2005 included 3,116 whitefish (Coregoninae), 3 Arctic grayling *Thymallus arcticus*, and 37 northern pike *Esox lucius*.

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